The study on quality and storability of peanut seed produced by local farmer in rainfed area was conducted in four large-seeded peanut varieties, Kaset 1, KU 50, KK 60-3 and KJU 72-2 and medium-seeded variety, Tainan 9. Peanuts were planted in the experiment station under irrigated condition and in the farmer field under rainfed condition. Pods of the five peanut varieties were stored under ambient condition at the experiment station and farmer house for 6 months. Germination, vigor and field emergence were determined at both before storage and every 3 months throughout the storage period. Results revealed that peanut seeds produced under both conditions had high quality. Field emergence was at satisfactory level after 6 months storage. Quality and storability of peanuts seeds produced in experiment station were higher than those produced in farmer field. Among the five peanut varieties Kaset 1, KJU 72-2, Tainan 9 and KU 50 were higher in seed quality and storability than KK 60-3.

Materials and Methods
Four large-seeded peanut varieties, Kaset 1, KU 50, KK 60-3 and KJU 72-2 and medium seed size variety, Tainan 9 were planted in the experiment station at Suwan Wajokkasikit Field Crop Research Station, Nakho n Ratchasima province under irrigated condition and in the farm field in Saraburi province under rainfed condition during August-January, 2002.

Harvesting were done at maturity which were about 120 DAP for large-seeded peanut and 100 DAP for medium-seeded peanut. A randomized complete block design with 4 replications was used. Hand harvested peanuts were sun-dried to 4-7% moisture content. Dried pods were put in the jute bags and stored under ambient condition at experiment station (25.6-27.8°C, 67-77% RH) and farmer house (28.7-30.9°C, 80-87% RH) for 6 months during February-July 2003. Seed moisture content, germination, seed vigor (accelerated aging and electrical conductivity: EC) were determined at The Seed Technology Laboratory, Department of Agronomy, Faculty of Agriculture, Kasetsart University. The field emergence test was carried out at Suwan Wajokkasikit Field Crop Research Station.

Results and discussion
Seed peanuts produced from both experiment station and farmer field were high quality. They were produced in farmer field under rainfed condition but seed peanut produced from both experiment station and farmer field showed high field emergence (~70%) after 6 months storage under ambient condition. Kaset 1, KKU 72-2, Tainan 9 and KU 50 were higher than KU 50 and KK 60-3.

Conclusion
Quality and storability of peanut seed produced in experiment station were higher than those produced in farmer field under rainfed condition but peanut seed produced from both experiment station and farmer field showed high field emergence (~70%) after 6 months storage under ambient condition. Kaset 1, KKU 72-2, Tainan 9 and KU 50 were higher in seed quality and storability than KK 60-3.